

ABSTRACT

The present invention concerns cDNAs for making attenuated, infectious Newcastle disease virus (NDV). Another aspect of the invention relates to methods of making the cDNAs. Another aspect of the invention is a vector containing the cDNA optionally linked to an operable promoter. Within the scope of the invention are vaccines comprising the attenuated, infectious NDV. Also disclosed are methods of making the vaccines and methods of using the vaccines to prevent or treat Newcastle disease in an avian host. The present invention also concerns the nucleotide sequences of the entire genome of NDV, the leading region, the trailing region, and the NP region, as well as proteins encoded by these nucleotide sequences.